

(12)

(21) 2 382 186

(22) 05.08.2000

(51) Int. Cl.<sup>7</sup>:

**D04H 1/46, D04H 13/00,  
D04H 5/02, D04H 3/10,  
D04H 1/42, D04H 1/56**

(85) 18.02.2002

(86) PCT/EP00/07621

(87) WO01/014624

(30) 199 38 809.1 DE 19.08.1999

I-13060, ROSSIO CURAVECCHIA, XX (IT).

(71) FLEISSNER GMBH & CO., MASCHINENFABRIK,  
Wolfgartenstr. 6  
D-63329, EGELSBACH, XX (DE).  
ALBIS SPA,  
SS 142. n. 102

(72) BOSCOLO, GIANNI G. (IT).

(74) MARKS & CLERK

(54) PROCEDE ET DISPOSITIF POUR PRODUIRE UN NON-TISSE COMPOSITE SERVANT A ABSORBER ET A  
RETENIR DES LIQUIDES

(54) METHOD AND DEVICE FOR PRODUCING A COMPOSITE NONWOVEN FOR RECEIVING AND STORING  
LIQUIDS

(57)

Known methods involve applying a layer of particularly highly absorbent fibers such as woodpulp on a carrier nonwoven and then compacting said composite nonwoven with the aid of water entanglement. One disadvantage of said compacting method is the high woodpulp fiber loss and the associated purification of the circulating water for the entanglement device. According to the invention, a fine layer of microfibers is initially applied before applying the woodpulp fibers. Said microfibers are evenly distributed on the carrier nonwoven using, for instance, a meltblown process and the woodpulp fibers are only then applied in the separating layer. The water during entanglement can no longer merge the woodpulp fibers into the carrier nonwoven due to the fact that the microfibers act as a barrier.



Office de la Propriété  
Intellectuelle  
du Canada

Un organisme  
d'Industrie Canada

Canadian  
Intellectual Property  
Office

An agency of  
Industry Canada

CA 2382186 A1 2001/03/01

(21) **2 382 186**

(12) **DEMANDE DE BREVET CANADIEN  
CANADIAN PATENT APPLICATION**

(13) **A1**

(86) Date de dépôt PCT/PCT Filing Date: 2000/08/05

(87) Date publication PCT/PCT Publication Date: 2001/03/01

(85) Entrée phase nationale/National Entry: 2002/02/18

(86) N° demande PCT/PCT Application No.: EP 2000/007621

(87) N° publication PCT/PCT Publication No.: 2001/014624

(30) Priorité/Priority: 1999/08/19 (199 38 809.1) DE

(51) Cl.Int.<sup>7</sup>/Int.Cl.<sup>7</sup> D04H 1/46, D04H 1/56, D04H 1/42,  
D04H 13/00, D04H 3/10, D04H 5/02

(71) Demandeurs/Applicants:  
FLEISSNER GMBH & CO., MASCHINENFABRIK, DE;  
ALBIS SPA, IT

(72) Inventeur/Inventor:  
BOSCOLO, GIANNI G., IT

(74) Agent: MARKS & CLERK

(54) Titre : PROCÉDE ET DISPOSITIF POUR PRODUIRE UN NON-TISSE COMPOSITE SERVANT A ABSORBER ET A  
RETENIR DES LIQUIDES

(54) Title: METHOD AND DEVICE FOR PRODUCING A COMPOSITE NONWOVEN FOR RECEIVING AND STORING  
LIQUIDS

(57) Abrégé/Abstract:

Known methods involve applying a layer of particularly highly absorbent fibers such as woodpulp on a carrier nonwoven and then compacting said composite nonwoven with the aid of water entanglement. One disadvantage of said compacting method is the high woodpulp fiber loss and the associated purification of the circulating water for the entanglement device. According to the invention, a fine layer of microfibers is initially applied before applying the woodpulp fibers. Said microfibers are evenly distributed on the carrier nonwoven using, for instance, a meltblown process and the woodpulp fibers are only then applied in the separating layer. The water during entanglement can no longer merge the woodpulp fibers into the carrier nonwoven due to the fact that the microfibers act as a barrier.

